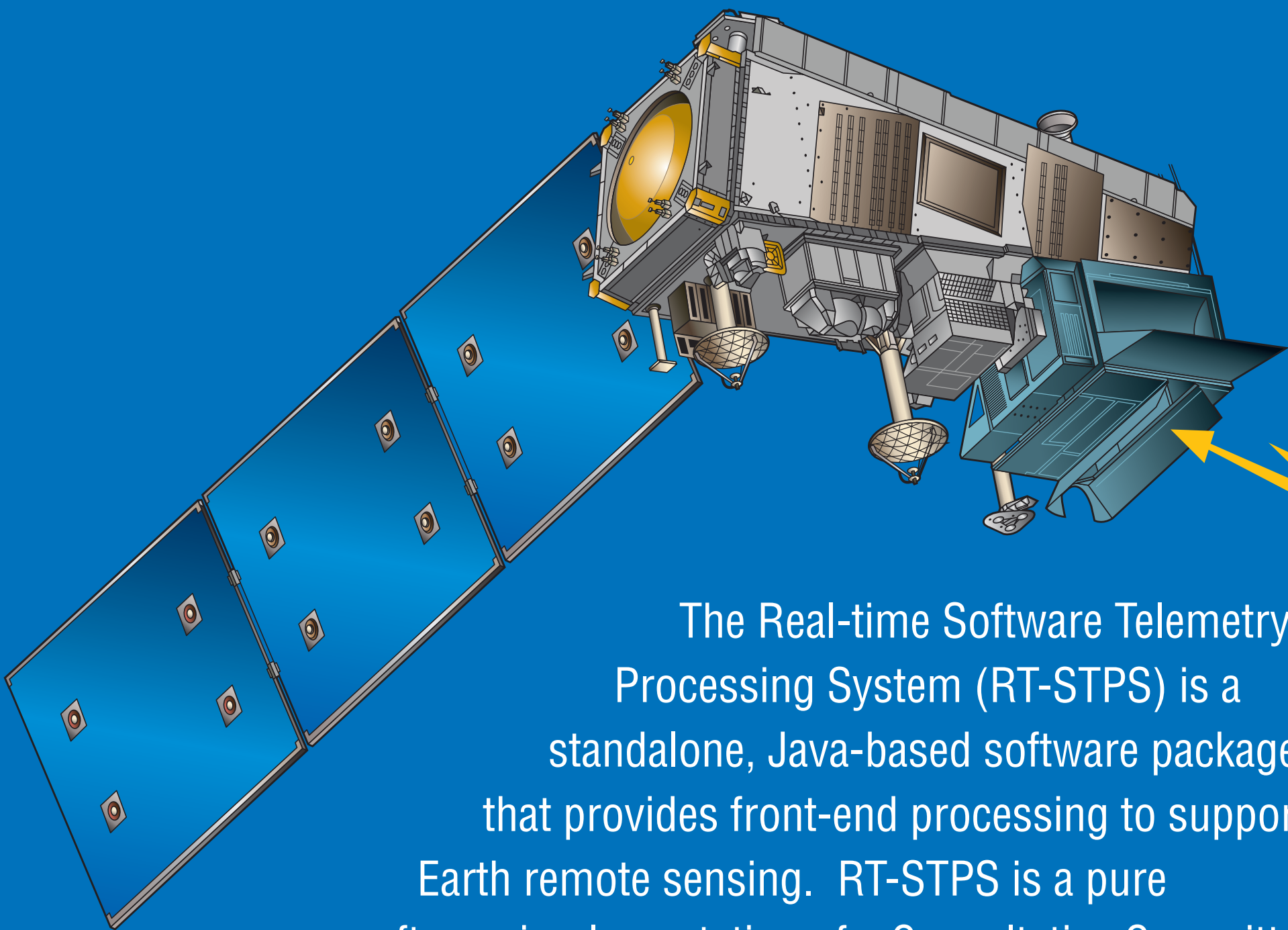


# RT-STPS



The Real-time Software Telemetry Processing System (RT-STPS) is a standalone, Java-based software package that provides front-end processing to support Earth remote sensing. RT-STPS is a pure software implementation of a Consultative Committee for Space Data Systems (CCSDS) protocol and Level-0 processing system data gateway. It performs protocol and Level-0 processing for the Terra and Aqua missions, and upcoming NPOESS Preparatory Project (NPP) missions.



- Creates standard or custom data pipelines
- Performs frame synchronization, PN decoding, R-S decoding, and time ordering of packets and frames
- Separates instrument data streams (by source) into independent files or network streams
- Writes to socket for real-time data relay (e.g., Simulcast)

**Real-time Data Viewer (e.g., Simulcast)**

**Packet-based Processing (e.g., IDPS, DPE)**

**File-based Processing (e.g., NISDS, SeaDAS, IMAPP, MODAPS)**

